

What is claim d is:

1. An automatic transmission apparatus for a vehicle comprising:

5           an operating inputting apparatus having a select lever for changing a range position of an automatic transmission; a power assisting apparatus adding an assisting force to an operating force input to the operating inputting apparatus so as to output to the automatic transmission;

10          a first transmitting means for transmitting the operating force from the operating inputting apparatus to the power assisting apparatus; and

              a second transmitting means for transmitting an output force from the power assisting apparatus to the automatic transmission,

              wherein the operating inputting apparatus is provided in a vehicle body member near a steering wheel, and the power assisting apparatus is provided in a vehicle body member in the vicinity of the passenger's foot, and wherein the  
20          operating inputting apparatus and the power assisting apparatus are arranged apart from one another.

2. The automatic transmission apparatus for a vehicle according to claim 1, wherein the power assisting apparatus is provided with an operating force detecting means for  
25          detecting an operating force input to the operating inputting

apparatus, a position detecting means for detecting a rotation position of an output shaft outputting an assisting force in addition to the operation force to the automatic transmission, and a controller for stopping the output shaft  
5 at a stop position of the output shaft in correspondence to each of preset range positions of the automatic transmission.

3. The automatic transmission apparatus for a vehicle according to claim 1 or 2, wherein the operating force detecting means has a rotation shaft detecting the operating  
10 force transmitted by the first transmitting means as a rotational torque, and the output shaft is arranged on the same axis as the rotation shaft.

4. The automatic transmission apparatus for a vehicle according to claims 1 to 3, wherein the position detecting  
15 means is provided with a detector fixed to an output gear mounted to the output shaft, and a resistance substrate with which a contact point of the detector is brought into slidable contact, and a mounting portion of the detector mounted to the output gear is integrally formed by an  
20 insulative material.

5. The automatic transmission apparatus for a vehicle according to claims 1 to 4, wherein the operating inputting apparatus is provided in an instrument panel, and the power assisting apparatus is provided in a dash panel or a floor  
25 panel.